



Issue No: 67

September: 2010

# The **fghanistan** agrometeorological **AAM** onthly Bulletin

Topics Crop Information Precipitation Temperature NDVI

## General Agroclimatic Situation of Afghanistan September 2010



Adverse Factor

1 Crop Condition

2 Crop Stage

3



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The Agromet Project of USGS, supported by United State Agency for International Development (USAID), is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

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### Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project , Afghan Meteorological Authority (AMA), United States Geological Survey (USGS), Food and Agriculture Organization of United Nation (FAO)

## Summary

During September 2010 the country received moderate rainfall which is seasonally usual in this time of the year and rainfall in the Month of September 2010 had small increase compared to the same month in last year and long term average.

During September 2010 the number of Rainy days was higher than the same month of last year.

Temperature for the month of September 2010 was lower than the same month of last year all over the country.

Snow depth has been recorded 10 to 30 cm in the extreme portion of the Northeastern regions.

## Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Planting (Winter Wheat)		
		Paghman	Paghman			
		Kabul	Darulaman			
		Surubi	Surubi			
	Panjsher	Dara	Dara	Harvested		
		Dashtak	Dashtak			
	Parwan	Syagerd	Gor band			
		Charikar	Charikar			
	Kapisa	Mahmoodraqi	Mahmoodraqi			
		Kohistan	Kohistan			
	Wardak	Chake	Chake			
		Jaghato	Jaghato	Planting (Winter Wheat)		
East Central	Bamyan	Bamyan	Bamyan	Harvested		
		Yakawlang	Yakawlang			
		Panjab	Panjab			
Eastern	Noristan	Paroon	Paroon			
		Duab	Duab			
	Nangarhar	Agam	Agam			
		Batikot	Ghaziabad			
		Jalalabad	Sheshembagh			
		Asmar	Asmar			



## Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Eastern	Kunar	Asmar	Asmar	Harvested		
		Asad Abad	Asad Abad			
	Laghman	Mihtarlam	Mihtarlam			
	Noristan	Paroon	Paroon			
		Do Ab	Do Ab			
North Eastern	Takhar	Bangi	Bangi			
		Taluqan	Taluqan			
	Kunduz	Imam Sahib	Imam Sahib			
		Qaliazal	Aqtipa			
		Chardara	Chardara			
		Kunduz	Kunduz			
		Ali Abad	Ali Abad			
	Baghlan	Pulikhomri	Pozaishan			
	Badakhshan	Argo	Argo			
		Baharak	Baharak			
		Ashkashm	Ashkashm			
		Khash	Kash			
		Faiz Abad	Faiz Abad			
South Eastern	Khost	Khost	Khost	Ploughing (Winter Wheat)		
		Khost	Shimal			
		Ali Sher	Ali Sher			
	Paktia	Zormat	Rohani Baba			
		Gardiz	Tera			
	Paktika	Urgon	Urgon			
		Sharana	Sharana			
		Tera	Tera			
	Ghazni	Muqur	Muqur			
Andar		Bande Sardi				
Southern	Nimroz	Zaranj	Zaranj	Harvested		
	Kandahar	Kandahar	Kandahar	Ploughing (Winter Wheat)		
	Zabul	Qalat	Qalat	Ploughing (Winter Wheat)		
	Urozgan	Tirin Kot	Tirin Kot	Ploughing (Winter Wheat)		
	Hilmand	Nad Ali	Nad Ali	Harvested		
		Greshk	Greshk	Harvested		
		Nawa	Nawa	Harvested		
		Lashkargah	Bolan	Harvested		

## Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Northern	Balkh	Takhta pol	Dihdadi	Harvested		
		Nahrishahi	Nahrishahi			
	Jawzjan	Sheberghan	Sheberghan	Pre planting (Winter Wheat)		
		Darzab	Darzab	Harvested		
	Saripul	Saripul	Saripul			
		Sozmaqala	Sozmaqala	Pre planting (Winter Wheat)		
	Faryab	Maimana	Maimana	Harvested		
		Andkhoy	Andkhoy			
	Samangan	Aibak	Aibak			
		Dara Souf	Dara Souf			
		Sar bagh	Sarbagh			
Western	Badghis	Qalainow	Qalainow	Pre planting (Winter Wheat)		
		Muqur	Muqur	Ploughing (Winter Wheat)		
	Ghor	Chaghcharan	Chaghcharan	Harvested		
		Shindand	Shindand			
		Zindajan	Zindajan			
		Gwazara	Falahat			
	Hirat	Hirat	Farm Urdokhan			
		Farah	Farah	Planting ( Winter wheat )		
Zone	Province	District	Station	Maize		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Surubi	Surubi	Grain Filling	Normal	Shortage of inputs
		Shaker dara	Shaker dara	Grain Filling	Normal	Not existed
	Faryab	Maimana	Maimana	Harvested		
		Charikar	Charikar			
	Parwan	Syagerd	Syagerd	Flowering	Normal	Not existed
		Dashtak	Dashtak	Harvested		
	Panjshir	Kapisa	Mahmod Raqi			
		Kohistan	Kohistan		Harvested	
		Sya gerd	Sya gerd	Grain Filling	Normal	Not existed
Eastern	Nangarhar	Agam	Agam	Grain Filling	Normal	Not existed
		Batikot	Ghazi Abad	Vegetative	Normal	Not existed
		Jalalabad	Sheshembagh	Grain Filling	Normal	Not existed
		Bnehsood	Behsood	Harvested		

Data Source: Agromet Network

## Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Maize		
				Crop Stage	Crop Condition	Adverse Factor
Eastern	Kunar	Asmar	Asmar	Flowering	Normal	Not existed
		Asadabad	Asadabad	Harvested		
	Noristan	Paroon	Paroon			
		Waigal	Waigal			
		Norgaram	Norgaram	Grain Filling	Normal	Not existed
		Do Ab	Do Ab	Grain Filling	Normal	Not existed
North Eastern	Kunduz	Imam Sahib	Imam Sahib	Grain Filling	Normal	Not existed
		Qala - e - Zal	Aqtipa	Vegetative	Normal	Not existed
		Chardara	Chardara	Grain Filling	Normal	Not existed
		Kunduz	Kunduz	Grain Filling	Normal	Not existed
		Ali Abad	Ali Abad	Grain Filling	Normal	Pest and disease
		Archi	Archi	Grain Filling	Normal	Not existed
	Takhar	Bangi	Bangi	Flowering	Good	Not existed
		Taloqan	Taloqan	Grain Filling	Normal	Weeds
	Baghlan	Polikhomri	Poza ieszan	Vegetative	Normal	Not existed
		Polikhomri	Polikhomri	Flowering	Normal	Not existed
South Eastern	Khost	Khost	Khost	Flowering	Good	Not existed
		Khost	Shimal	Flowering	Good	Not existed
		Ali Sher	Ali Sher	Harvested		
	Paktia	Zormat	Rohani Baba	Harvested		
		Gardiz	Tera	Grain Filling	Good	Not existed
	Paktika	Urgon	Urgon	Harvested		
		Sharana	Sharana			
Southern	Hilmand	Nad Ali	Nad Ali	Flowering	Normal	Not existed
		Greshk	Greshk	Flowering	Normal	Not existed
		Nawa	Nawa	Grain Filling	Normal	Not existed
		Lashkargah	Bolan	Flowering	Normal	Not existed
	Urozgan	Urozgan	Urozgan	Grain Filling	Normal	Not existed
Northern	Samangan	Dara Souf	Dara Souf	Flowering	Good	Not existed
		Sar bagh	Sar bagh	Grain Filling	Normal	Not existed
Western	Hirat	Shendand	Shendand	Harvested		
		Zenda jan	Zenda jan			
	Farah	Farah	Farah	Harvested		
	Ghazni	Moqur	Muqur	Flowering	Normal	Not existed

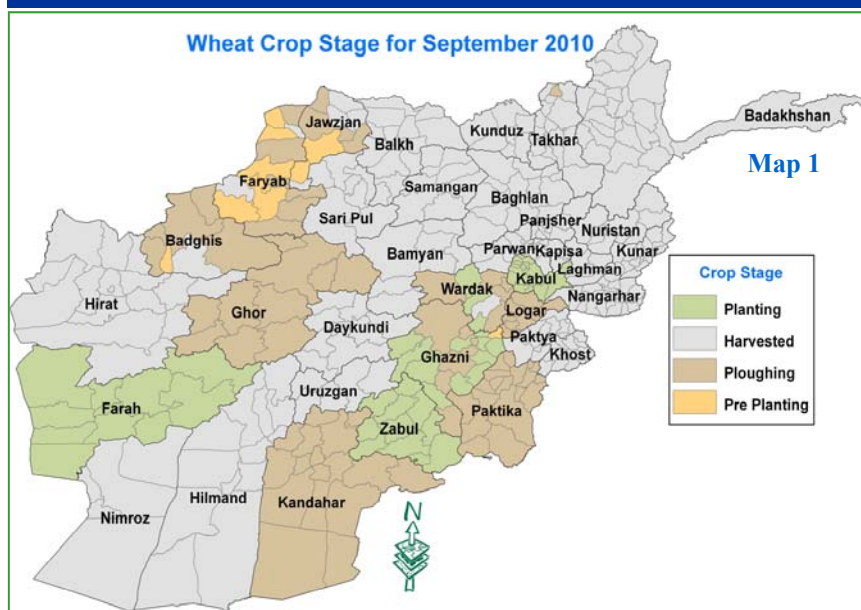
Data Source: Agromet Network

## Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Rice		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Sarubi	Sarubi	Grain Filling	Normal	Shortage of inputs
Eastern	Nangarhar	Agam	Agam	Grain Filling	Normal	Cut worm
		Batikut	Ghazi Abad	Vegetative	Normal	Not existed
		Jalalabad	Sheshembagh	Flowering	Normal	Not existed
		Jalalabad	Farm Jadeed	Harvested		
	Kunar	Asmar	Asmar			
		Asad Abad	Asad Abad	Vegetative	Normal	Not existed
	Laghman	Mihtarlam	Mihtarlam	Flowering	Normal	Shortage of inputs
North Eastern	Kunduz	Imam Sahib	Imam Sahib	Harvested		
		Qaliazal	Aqtipa	Flowering	Normal	Not existed
		Chardara	Chardara	Grain Filling	Normal	Not existed
		Kunduz	Kunduz	Flowering	Normal	Not existed
		Khan Abad	Khan Abad	Harvested		
		Ali Abad	Ali Abad	Grain Filling	Normal	Weeds
		Archi	Archi	Harvested		
	Takhar	Bangi	Bangi	Grain Filling	Normal	Weeds
		Taloqan	Taloqan	Flowering	Normal	Not existed
	Baghlan	Polikhomri	Polikhomri	Vegetative	Normal	Not existed
		Pozaishan	Pozaishan	Vegetative	Normal	Not existed
South Eastern	Khost	Khost	Khost	Grain Filling	Good	Not existed
		Khost	Shimal	Grain Filling	Good	Not existed
	Paktia	Ali Sher	Ali Sher	Harvested		
		Zormat	Rohanee baba	Grain Filling	Normal	Not existed
Southern	Urozgan	Urozgan	Urozgan	Grain Filling	Normal	Not existed
Western	Hirat	Shendand	Shendand	Harvested		
		Zenda jan	Zenda jan			

Data Source: Agromet Network

## Wheat Crop Stage, Condition and Adverse Factor Maps

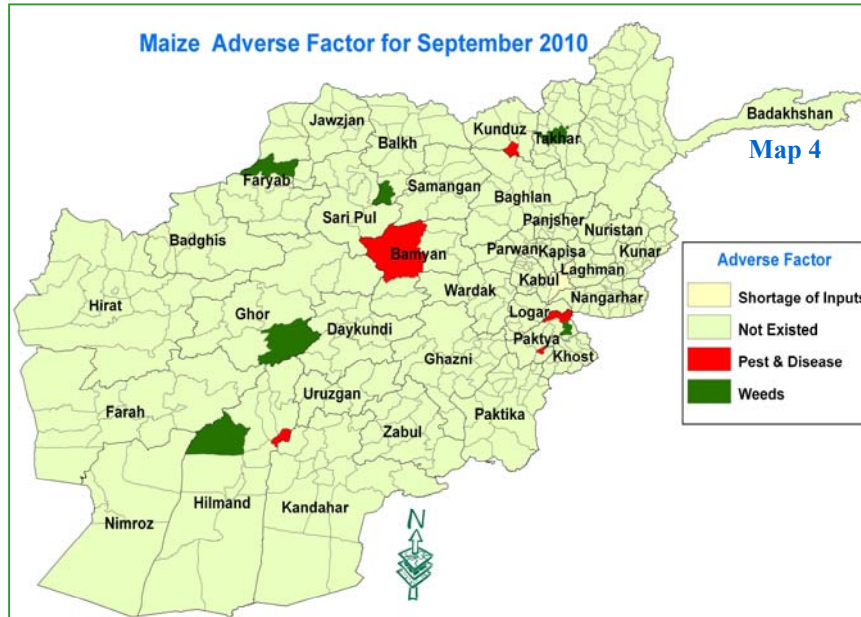
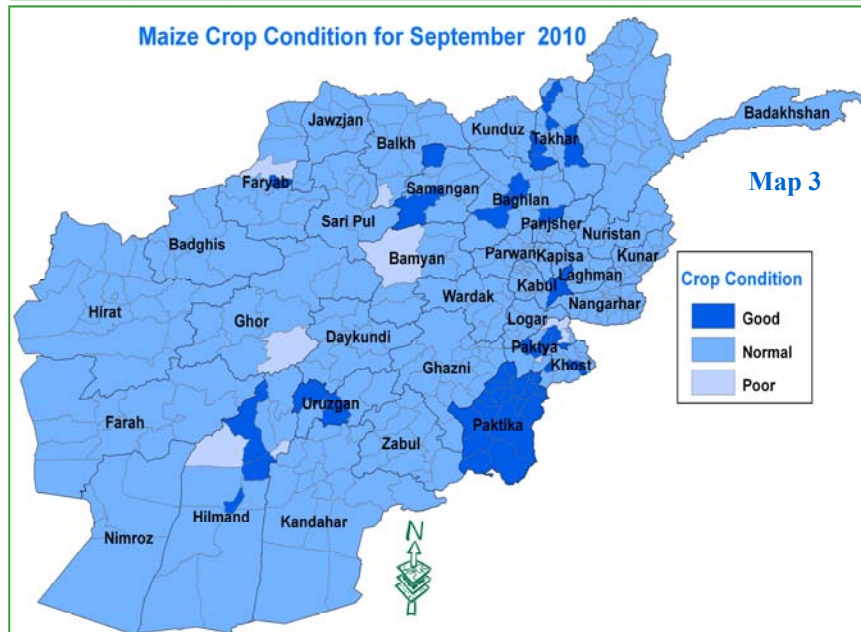
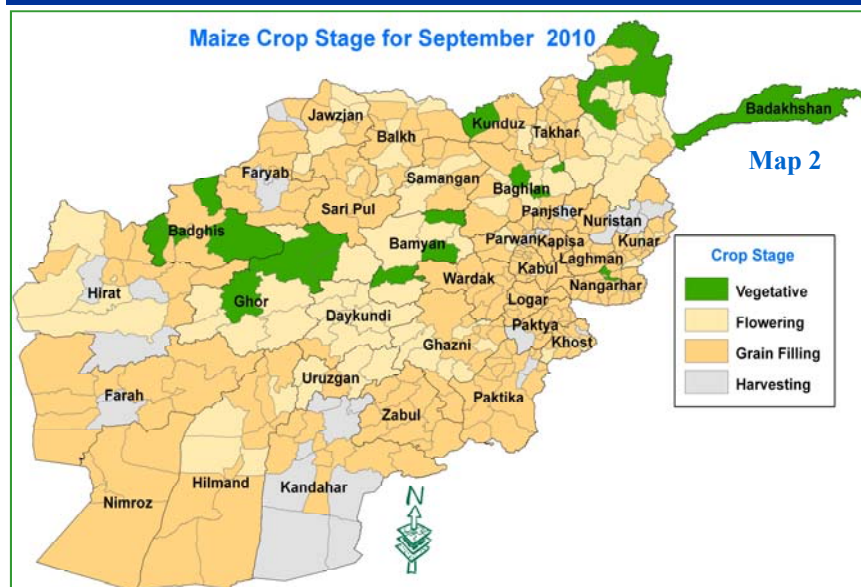


**Not Visible Crop Condition**

**Not Visible Adverse Factor**



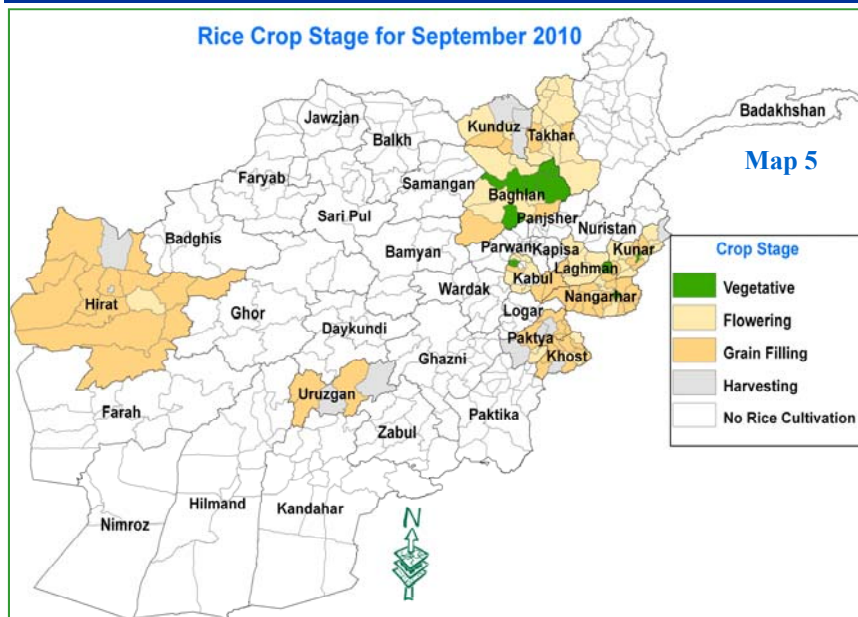
## Maize Crop Stage, Condition and Adverse Factor Maps



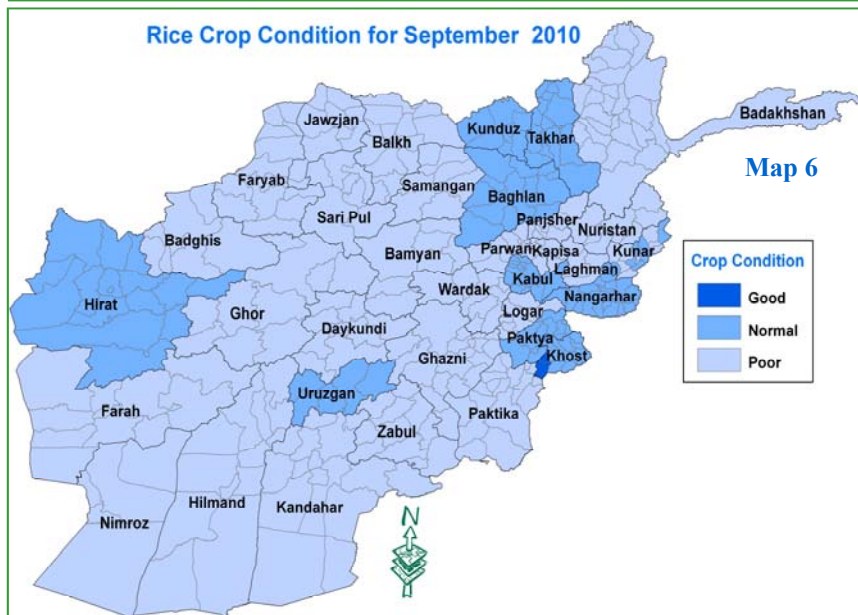
Data Source: Agromet Network

## Rice Crop Stage, Condition and Adverse Factor Maps

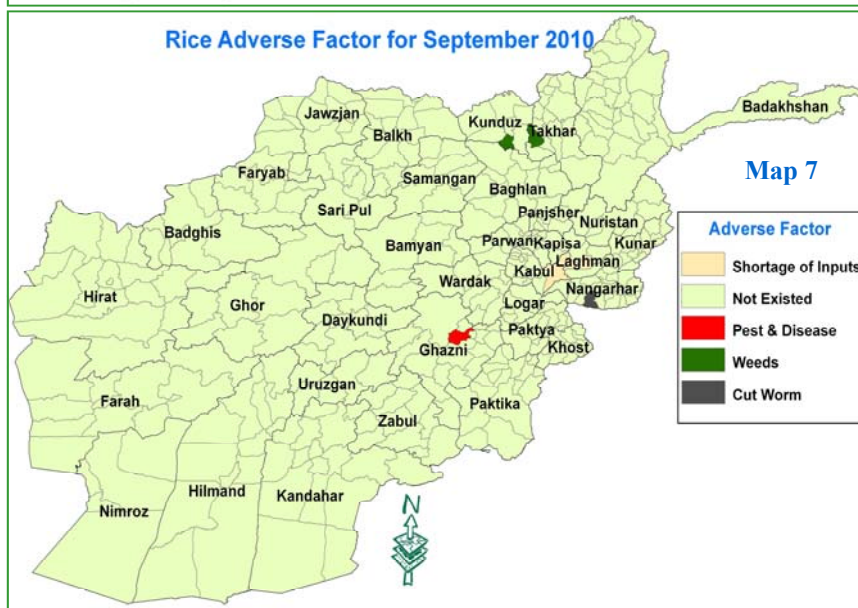
Rice Crop Stage for September 2010



Rice Crop Condition for September 2010



Rice Adverse Factor for September 2010



Data Source: Agromet Network

## Precipitation

During July and August 2010 the country received heavy seasonal rainfall due to Indian monsoon which was accompanied by flash floods too. Comparison of rainfall data for the month of September 2010 with the same month of long term average (Chart 2) shows small increase of rainfall

During September 2010 the country received moderate rainfall which is seasonally usual in this time of the year.

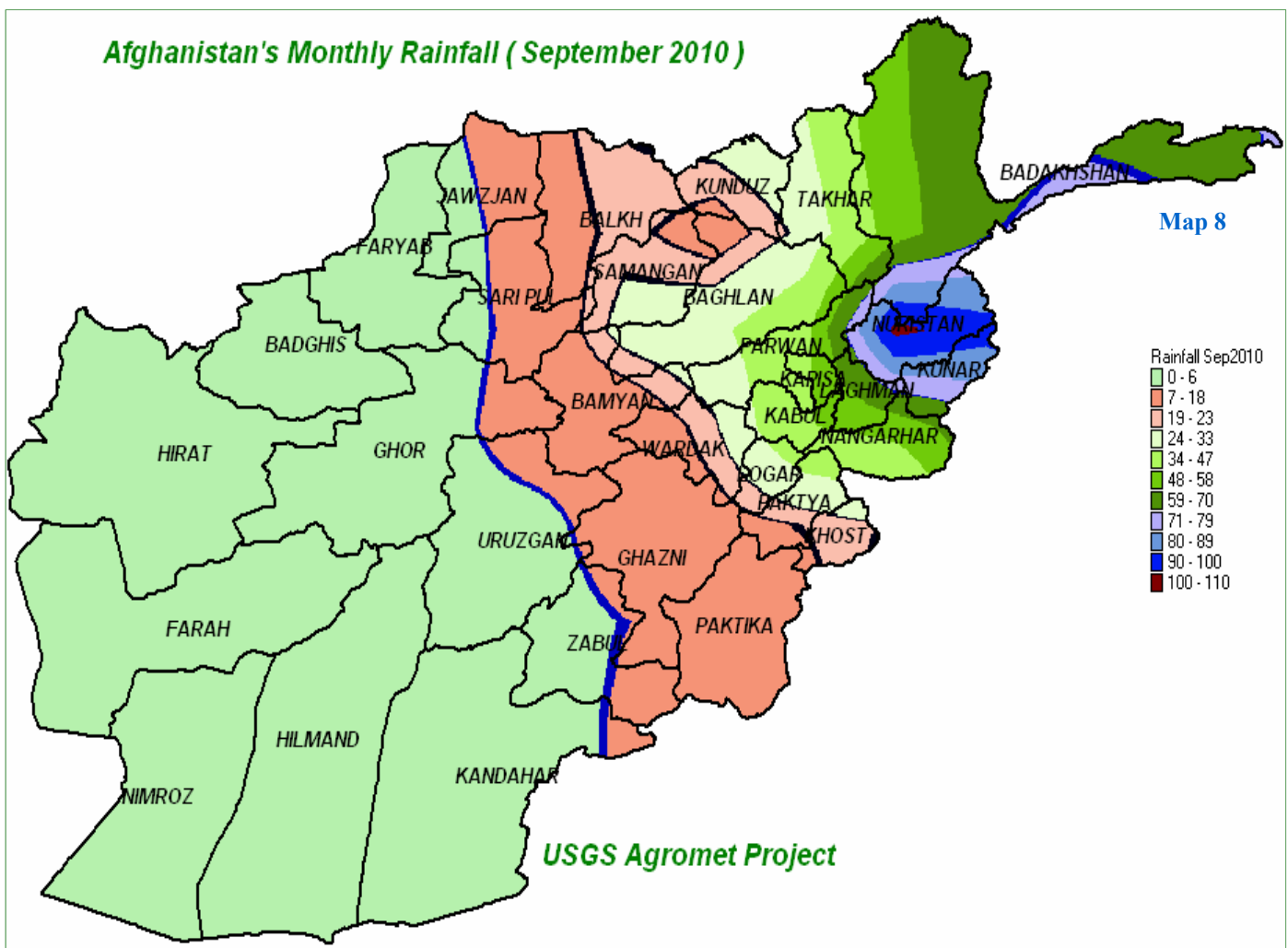
However rainfall had variable situation in different parts of the country, which was showing an increase in some parts while rainfall was accompanied with decrease in other parts.

Comparison of rainfall data for the month of September 2010 with the same month in 2009 (Chart1) shows an increase in rainfall during the month of September 2010 over the same month last year.

Comparison of rainfall data for the month of September 2010 with the same month of long term average (Chart 2) shows small increase of rainfall during the month of September 2010 over the same month of long term average.

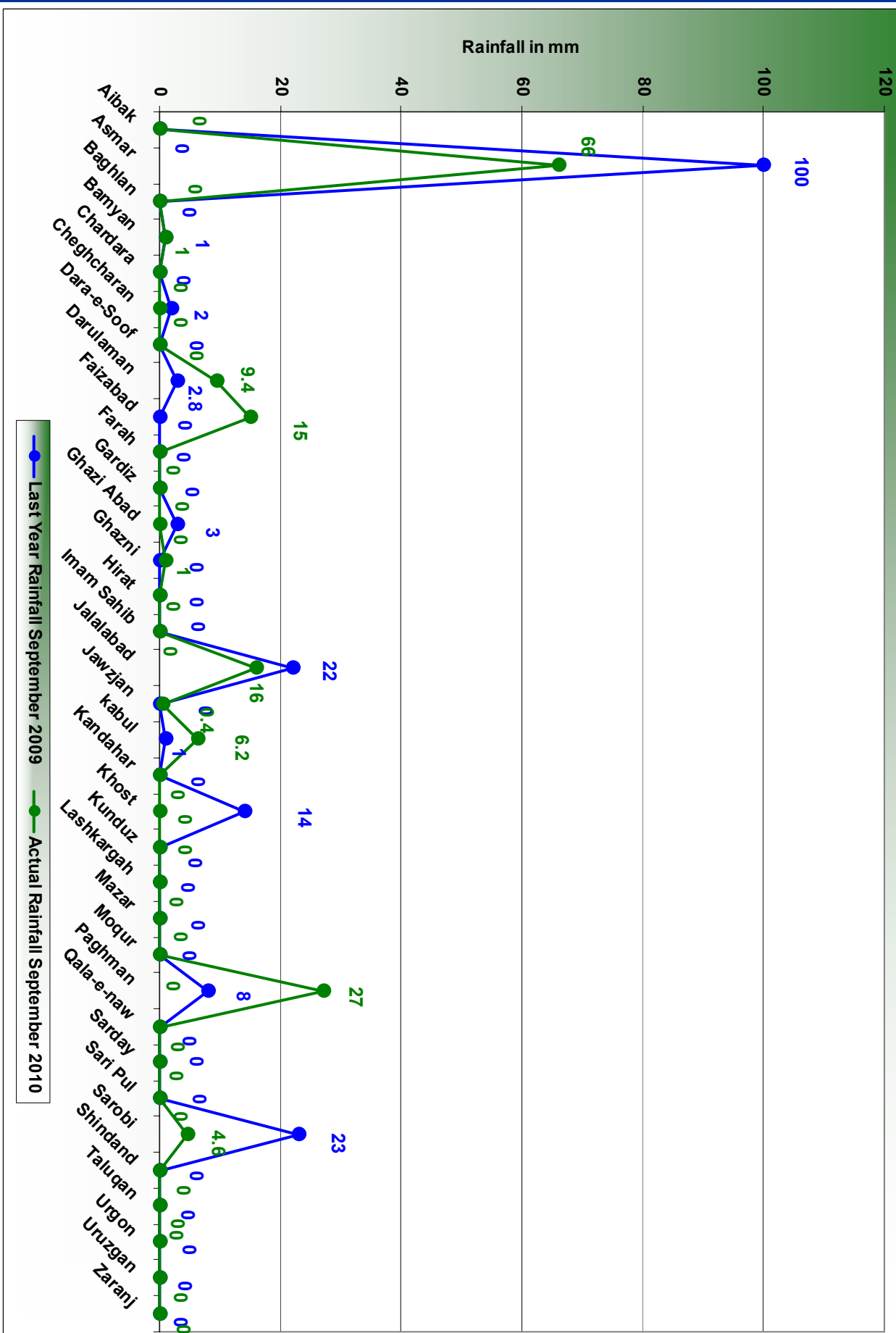
Distribution of rainfall as usual was variable in different parts of the country during September 2010.

As map (8) shows most amount of rainfall occurred in the Eastern region during September 2010, the Southeastern and Northeastern regions experienced less amount of rainfall and the remaining regions of the country seasonal dryness continued.



Comparison of Actual Rainfall September 2010 with the Same Month of Last Year

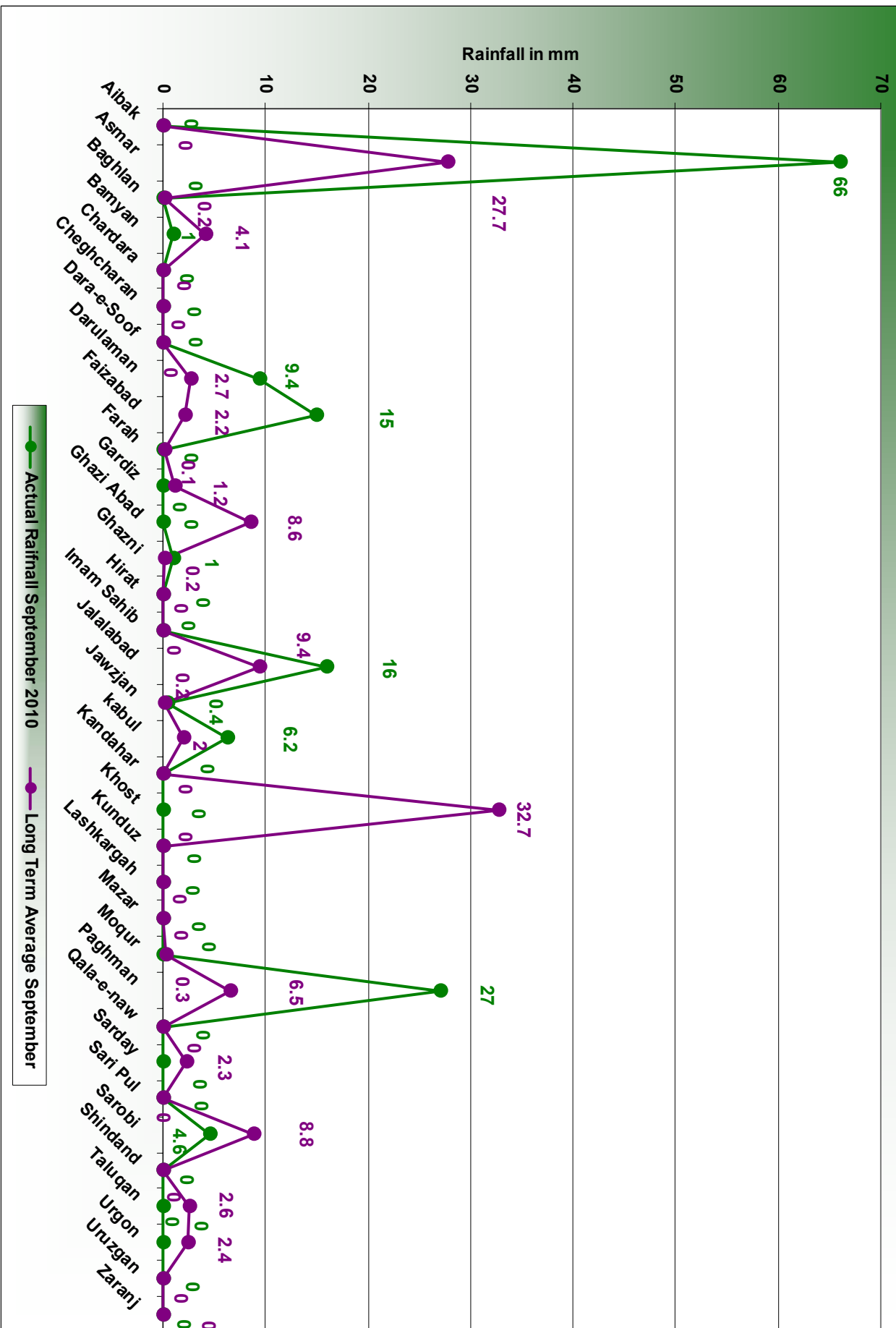
Chart 1





Comparison of Actual Rainfall September 2010 with the Same Month of Long Term Average

Chart 2





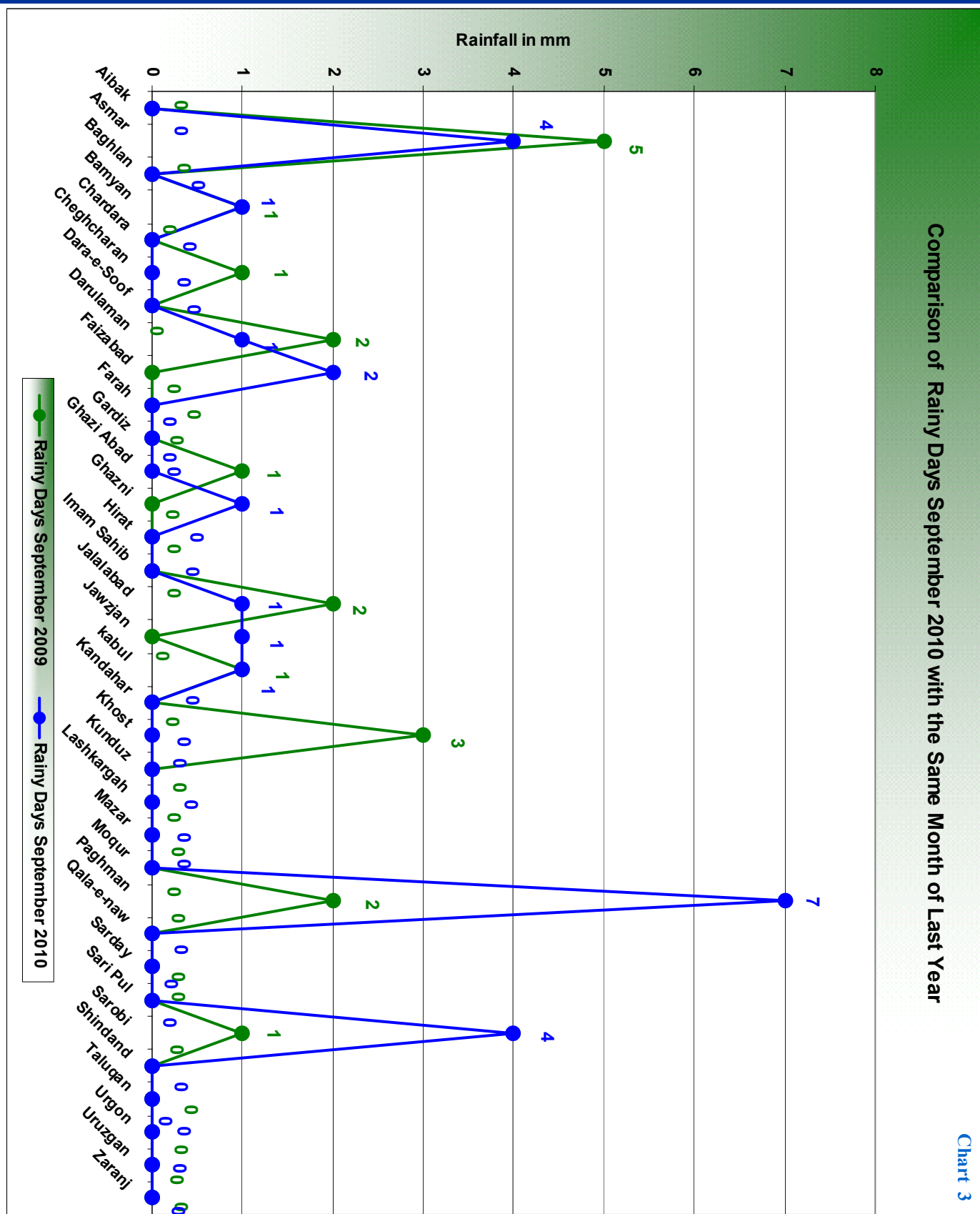
# Rainfall for the Month of September 2010

Table 1

Station	Rainfall September 2009 in (mm)	Rainfall September 2010 in (mm)	Long Term Average September in (mm)
Aibak	0	0	0
Asmar	100	66	27.7
Baghlan	0	0	0.2
Bamyan	1	1	4.1
Chardara	0	0	0
Cheghcharan	2	0	0
Dara-e-Soof	0	0	0
Darulaman	2.8	9.4	2.7
Faizabad	0	15	2.2
Farah	0	0	0.1
Gardiz	0	0	1.2
Ghazi Abad	3	0	8.6
Ghazni	0	1	0.2
Hirat	0	0	0
Imam Sahib	0	0	0
Jalalabad	22	16	9.4
Jawzjan	0	0.4	0.2
kabul	1	6.2	2
Kandahar	0	0	0
Khost	14	0	32.7
Kunduz	0	0	0
Lashkargah	0	0	0
Mazar	0	0	0
Moqur	0	0	0.3
Paghman	8	27	6.5
Qala-e-naw	0	0	0
Sarday	0	0	2.3
Sari Pul	0	0	0
Sarobi	23	4.6	8.8
Shindand	0	0	0
Taluqan	0	0	2.6
Urgon	0	0	2.4
Uruzgan	0	0	0
Zaranj	0	0	0

Data Source:Agromet Network

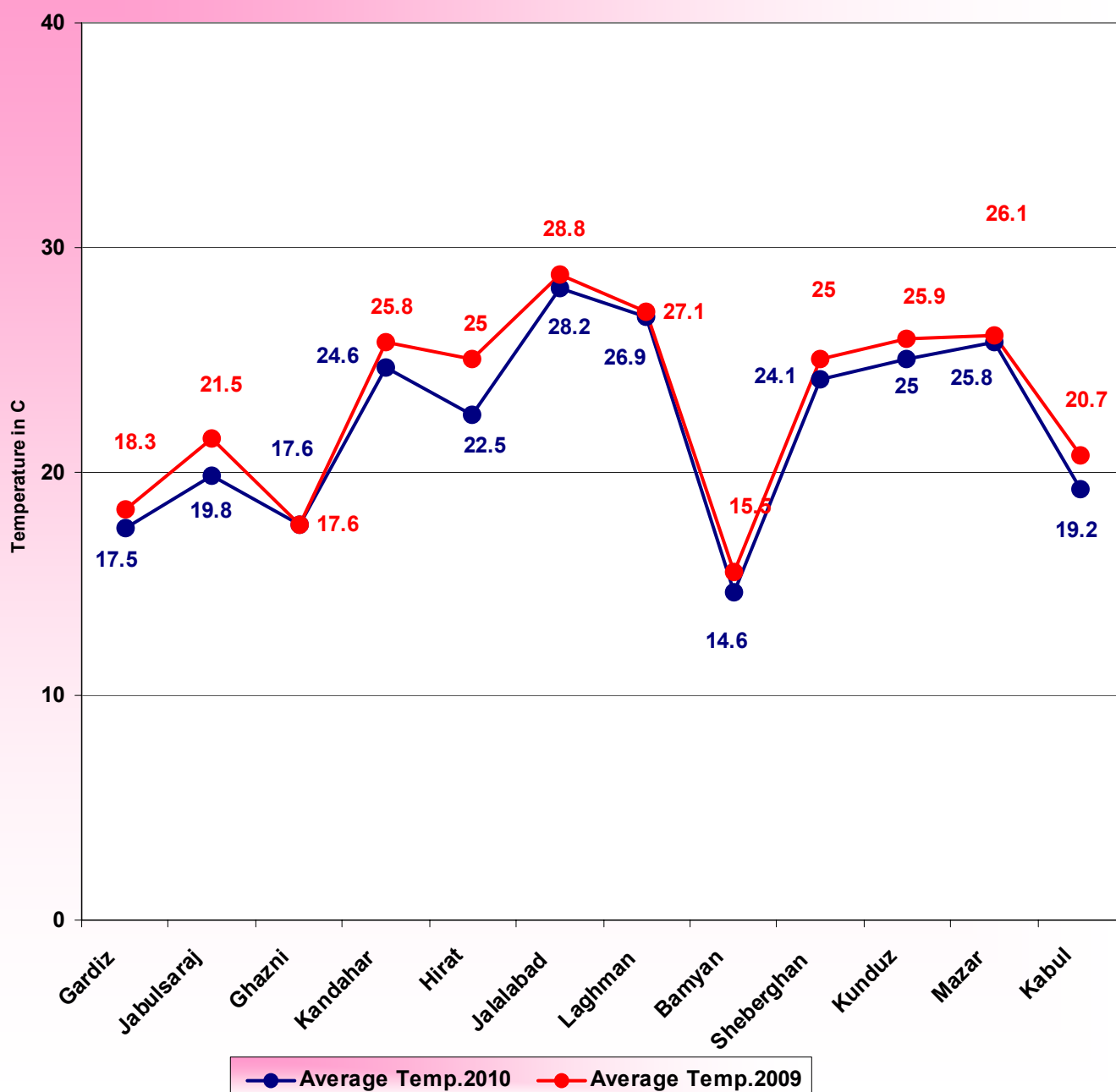
## Rainy Days for the Month of September 2010



Comparison of rainy days for the month of September 2010 over the same month of last year. (Chart3) shows a small increase during the month

Chart 4

## Comparison of Average Temperature of September 2010 with September 2009



**Temperature for the month of September 2010 was lower than the same month of last year .**

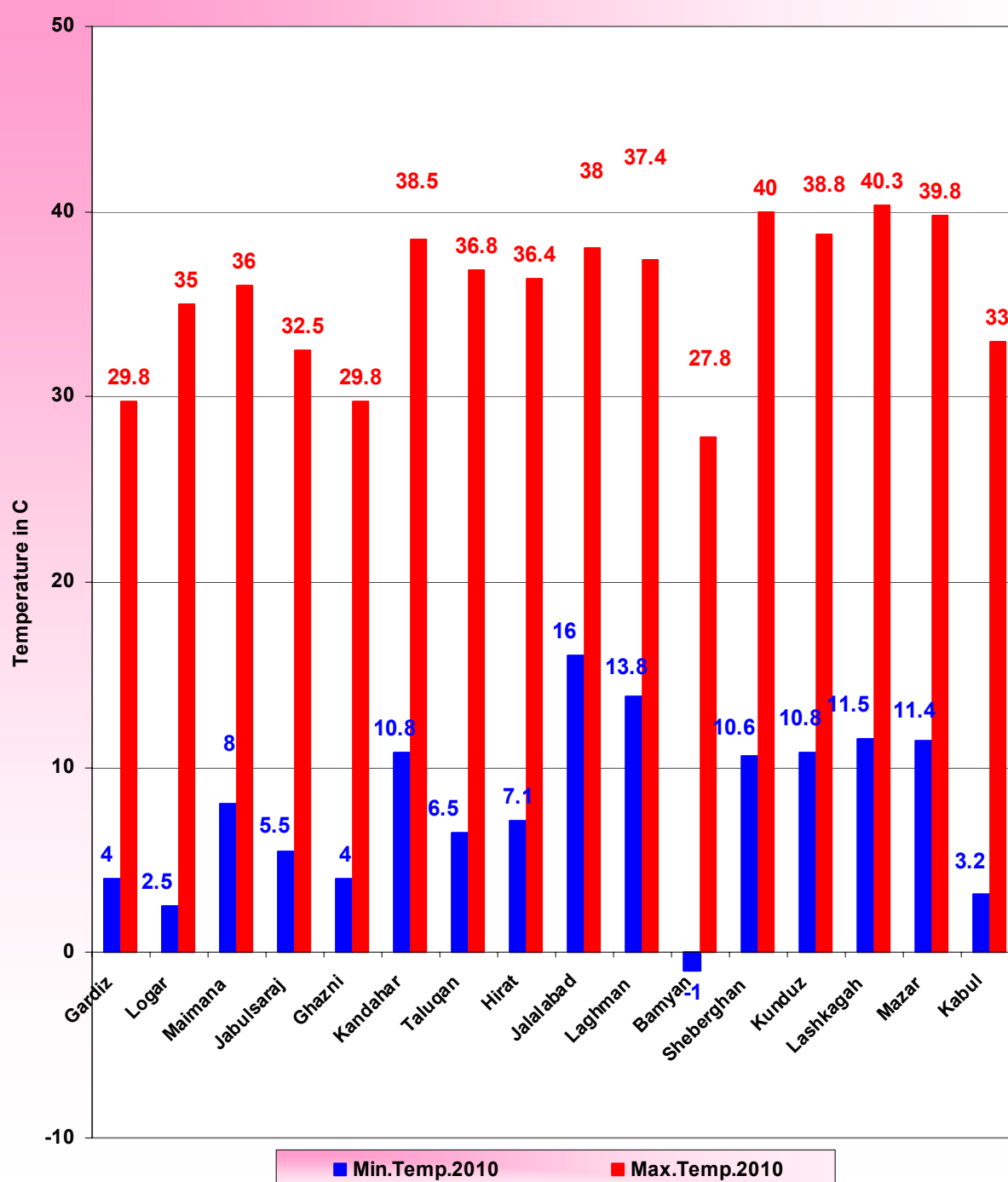
Temperature for the month of September 2010 was lower than the same month of last year. Most parts of the country experienced slightly lower temperature.

Comparison of monthly average of temperature for

the month of September 2010 with the same month in 2009 (Chart4) shows small decrease in temperature during the month of September 2010 over the same month of last year across the country.

Chart 5

Comparison of Minimum and Maximum Temperature of September 2010

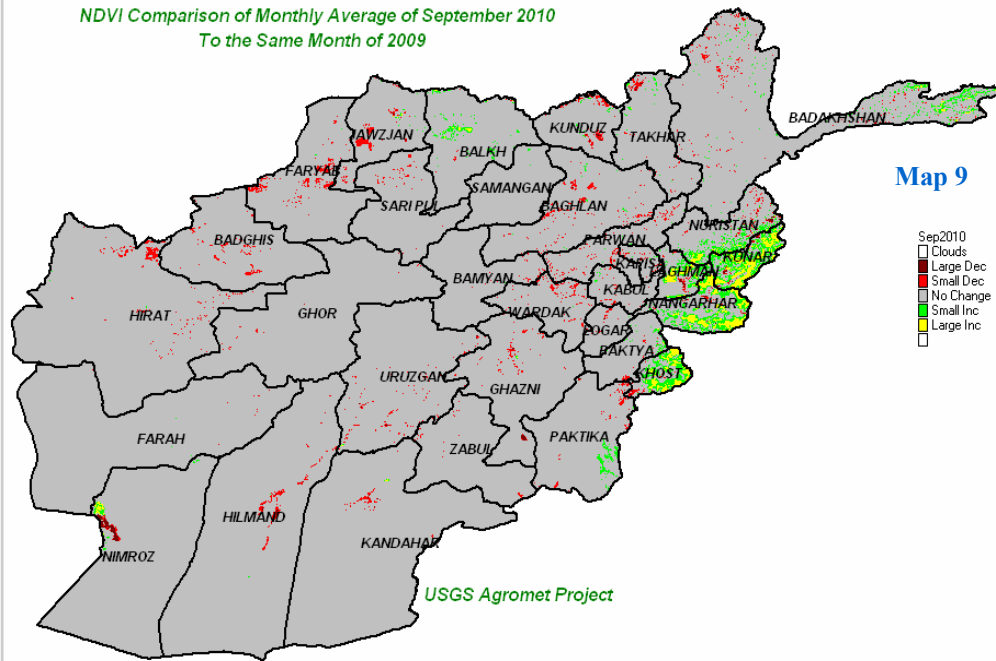


**Lashkargah with 40.3 C was the warmest sports of the Country during September 2010 .**

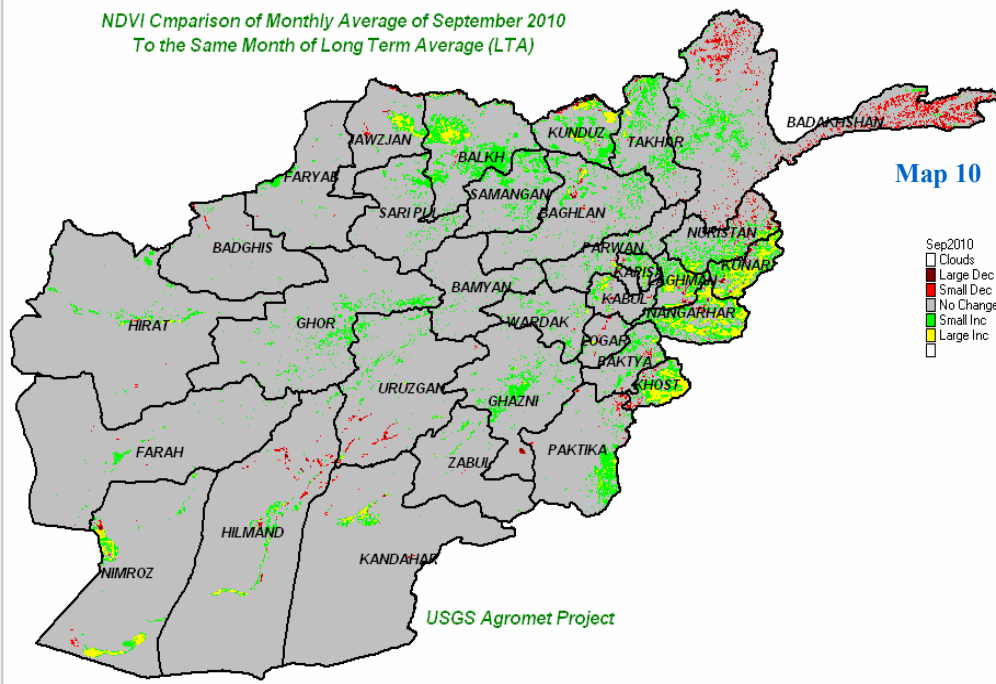
Chart (5) shows maximum and minimum the warmest spots of the country during September temperature for the month of September 2010. 2010 and Bamyān with -1 ° C experienced coldest As chart (5) shows Lashkargah with 40.3 ° C was weather.

## Comparison of (NDVI ) September 2010

NDVI Comparison of Monthly Average of September 2010  
To the Same Month of 2009



NDVI Comparison of Monthly Average of September 2010  
To the Same Month of Long Term Average (LTA)



Comparison of monthly average of NDVI for the month of September 2010 with the same month in 2009 (Map 9) shows small increase of NDVI in the Eastern region during the month of September 2010 over the same month of last year.

There is no change in NDVI in the remaining regions of the country during the month of September 2010 compared to the same month in 2009.

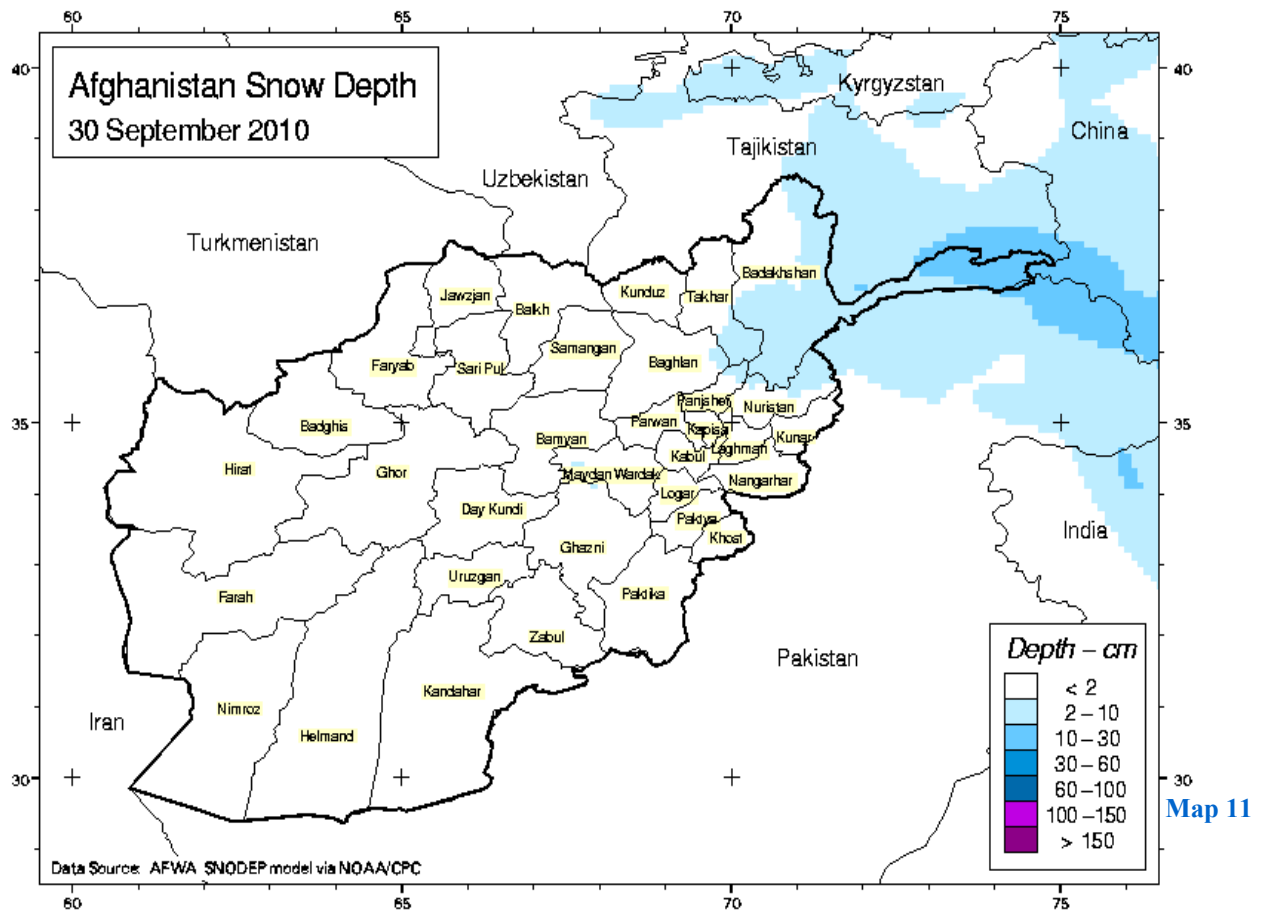
Comparison of monthly average of NDVI for the

month of September 2010 with the same month of long term average (Map 10) shows small increase of NDVI in the Eastern and some parts in the Northern regions during the month of September 2010 over the same month of long term average.

There is no change of NDVI in the remaining regions of the country during the month of September 2010 compared to the same month of long term average.



## Afghanistan Snow Depth for month of September 2010



Map (11) shows remaining snow pack in the end of September in the Northeastern region. As map (11) shows the snow depth has been recorded 10 to 30 cm in the extreme portion of the Northeastern regions.

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